



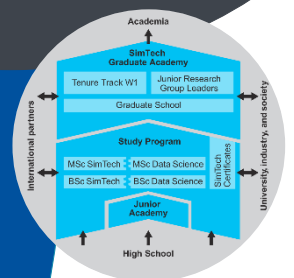
Universität Stuttgart

Cluster of Excellence EXC 2075 „Data-Integrated Simulation Science“

Graduate Academy SimTech

Training Program Summer term 2023

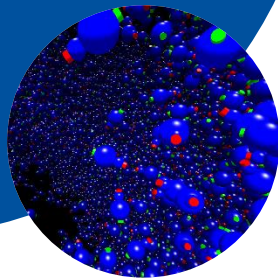
The Graduate Academy of the SC SimTech promotes excellence in postdoctoral and doctoral education across all disciplines in the field of simulation science. It offers an interdisciplinary structured and international training program in order to prepare the candidates with optimal conditions for their successful PhD and beyond.





**Graduate Academy
SimTech**

Overview



TRAINING PROGRAM

The training program at GS SimTech consists of the following elements as specified in the doctoral supervision agreement (according to Section 4 (6) of the Doctoral Degree Regulations at least 9 credit points must be achieved):

Subject-specific courses (at least 6 CP)

(May be selected from the regular courses offered by the University of Stuttgart or from suitable courses outside the University of Stuttgart.)

Key qualifications (at least 1 course)

(May be selected from the program offered by GRADUS.)

Units offered by GS SimTech (at least 3 units)

(To be selected from the “Academy Program” of GS SimTech.)

- **GS Seminar (at least 1 seminar)**
- **Additional GS units**
(This program includes, for example, career counseling, mentoring schemes as well as industry connections.)

Annual poster presentation

(For example during the annual status seminar of SC SimTech.)

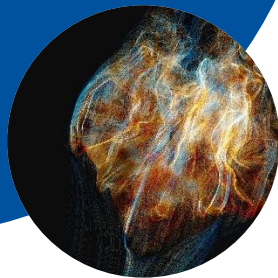


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TRAINING PROGRAM

Units offered by GS SimTech

GS Seminars during the summer term 2023

(to promote interdisciplinary networking among the doctoral students and to expand their scientific horizon)

"Calculating Free Energy Differences from Molecular Simulation: Theory and Practical Applications"

Prof. Niels Hansen

Please register via [email](#).

"Mathematics of Shock Waves"

Prof. Christian Rohde

Please register via [email](#).

"Modeling of Turbulent Flows: Physical and Data-Driven Methods"

Prof. Heng Xiao and Dr.-Ing. Xu Chu

Please register via [Campus](#) [Module number: 107360].

"Fundamentals of turbulent flows: Physics and Data Analysis"

Dr.-Ing. Xu Chu and Prof. Heng Xiao

Please register via [Campus](#) [Module number: 107350].

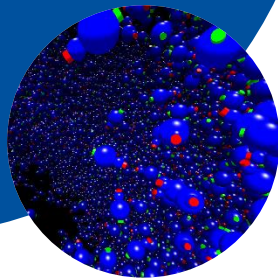


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TRAINING PROGRAM

Units offered by GS SimTech

Additional GS units during the summer term 2023

(This program includes, for example, career counseling, mentoring schemes as well as industry connections.)

Coursera for doctoral students

The interdisciplinary nature of our cluster requires a broad spectrum of practical knowledge in different tools and skills that may not have been part of a PhD student's education. Skills such as Git, Data Management and Machine Learning can be acquired. Lectures are prepared by official and well-known universities and companies such as Princeton University and IBM respectively in a broad spectrum of application.

Please register via [Coordination GS SimTech](#).

Early Career Counseling

Please contact the [Equality and diversity manager](#).